

# Converting Colors

$Y_{xy}(33.7042, 0.1696, 0.2304)$

Have a look what the booklet for  
Yxy(33.7042, 0.1696, 0.2304)  
contains.

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# Color

**Yxy(36.9512, 0.1992, 0.2370)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01AFF0
RGB	1, 175, 240
RGB Percent	0%, 69%, 94%
CMY	0.9980, 0.3137, 0.0590
CMYK	1.00, 0.27, 0.00, 0.06
HSL	196°, 100%, 47%
HSV	196°, 100%, 94%
XYZ	31.0577, 36.9512, 87.9033
YIQ	130.3840, -124.5690, -16.6730

# Conversions

## Conversions Part 2

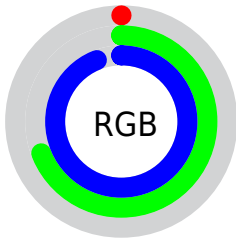
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	1, 102, 240
Decimal	110576
CIE <sub>Lab</sub>	67.24, -14.41, -42.71
CIE <sub>LCh</sub>	67, 45.075, 251.359
Y <sub>xy</sub>	36.9512, 0.1992, 0.2370
Android (android.graphics.Color)	4278300656 (0xFF01AFF0)
YUV	130.3840, 54.0407, -113.4698
Hunter-Lab	60.7875, -15.1784, -43.1866

# Details

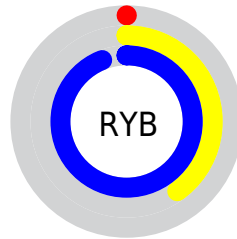
The Yxy color **36.9512, 0.1992, 0.2370** is a dark color, and the websafe version is hex **0099CC**. The color can be described as middle saturated azure. A complement of this color would be **22.3555, 0.6052, 0.3575**, and the grayscale version is **22.2488, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.0648, 0.2345, 0.2987**, and **17.6266, 0.1936, 0.2169** is the 20% darker color. If you saturate the color by 10%, you get **36.8946, 0.1991, 0.2368**, and if you desaturate by 10%, it is **39.7453, 0.2036, 0.2471**.

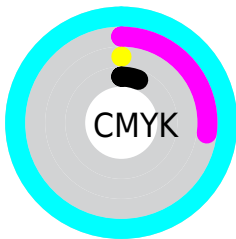
# Distribution



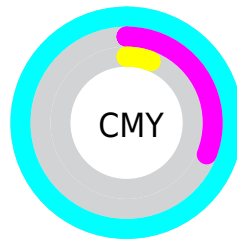
- Red (0%)
- Green (69%)
- Blue (94%)



- Red (0%)
- Yellow (40%)
- Blue (94%)



- Cyan (100%)
- Magenta (27%)
- Yellow (0%)
- Black (6%)




- Cyan (100%)
- Magenta (31%)
- Yellow (6%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.9512, 0.1992, 0.2370 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 36.9512, 0.1992, 0.2370 by changing the saturation by 10% instead.





 36.9512, 0.1992,  
0.2370


 36.9512, 0.1992,  
0.2370


333.0992, 0.2545,  
0.2839


 25.1697, 0.1863,  
0.2254


 70.4977, 0.2187,  
0.2540

 16.2035, 0.1703,  
0.2109


 93.0315, 0.2262,  
0.2604


 9.6683, 0.1502,  
0.1920


 119.9183, 0.2327,  
0.2659

 5.1796, 0.1248,  
0.1671

 151.5423, 0.2382,  
0.2705

 2.3530, 0.0925,  
0.1337

 188.2880, 0.2431,  
0.2745

 0.8016, 0.0459,  
0.0897

230.5398, 0.2474,

 0.0000, 0.0000,

0.2781

0.0000

278.6821, 0.2511,  
0.2812

■ 36.9512, 0.1992,  
0.2370

■ 36.9512, 0.1992,  
0.2370

■ 36.8946, 0.1991,  
0.2368

■ 39.7453, 0.2036,  
0.2471

■ 42.9051, 0.2097,  
0.2574

■ 46.5065, 0.2178,  
0.2677

■ 50.5955, 0.2279,  
0.2779

■ 55.2110, 0.2397,  
0.2878

■ 60.3871, 0.2529,  
0.2973

■ 66.1547, 0.2672,  
0.3063

■ 72.5420, 0.2822,  
0.3146

■ 79.5751, 0.2976,  
0.3222

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



36.9512, 0.1949, 0.2760



36.9512, 0.1992, 0.2370



36.9512, 0.2294, 0.2243

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



36.9512, 0.1992, 0.2370



36.9512, 0.4149, 0.3081



36.9512, 0.3303, 0.4507

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



36.9512, 0.1992, 0.2370



22.3555, 0.6052, 0.3575

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



36.9512, 0.3931, 0.4459



36.9512, 0.1992, 0.2370



36.9512, 0.4468, 0.3588

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



36.9512, 0.1992, 0.2370



36.9512, 0.3521, 0.2644



36.9512, 0.4371, 0.4087



36.9512, 0.2660, 0.4094



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



36.9512, 0.1992, 0.2370



36.9512, 0.2630, 0.2288



36.9512, 0.4371, 0.4087



36.9512, 0.3523, 0.4540

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



36.9524, 0.1992, 0.2370



75.7298, 0.2667, 0.3060



62.6757, 0.2915, 0.5694



15.5936, 0.2606, 0.3023



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

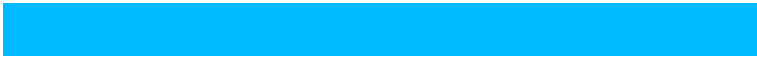


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



36.9524, 0.1992, 0.2370



42.2613, 0.1990, 0.2365



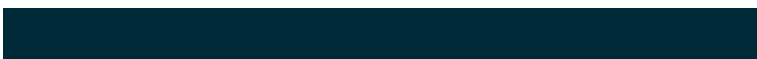
9.1583, 0.1566, 0.0836



17.1613, 0.2981, 0.3224



20.4359, 0.1996, 0.2384



1.8641, 0.2033, 0.2518



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



21.6250, 0.4054, 0.2008



24.7974, 0.4059, 0.2010



52.8388, 0.4684, 0.4662



15.9539, 0.3179, 0.3119



11.8564, 0.4039, 0.1999

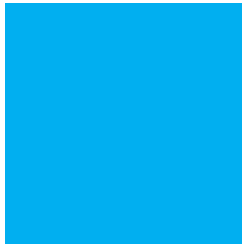


1.0029, 0.3905, 0.1925



# Previews

## White Background



This preview shows how the Yxy color 36.9512, 0.1992, 0.2370 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

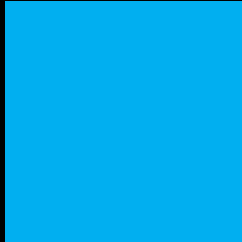
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.9512, 0.1992, 0.2370 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

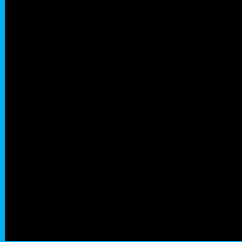
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 36.9512, 0.1992, 0.2370**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.9512, 0.1992, 0.2370.

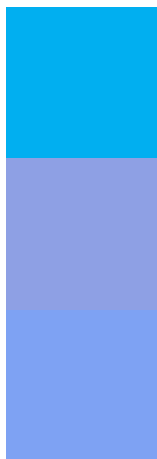


This preview shows how white text looks on a background with the Yxy color 36.9512, 0.1992, 0.2370.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

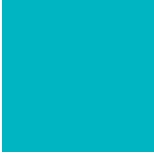
36.9577, 0.1992, 0.2370

### Protanopia

36.4938, 0.2471, 0.2390

### Deuteranopia

36.7473, 0.2294, 0.2236



## **Tritanopia**

36.9428, 0.2189, 0.3079

# Trichromacy



## Original Color

36.9577, 0.1992, 0.2370



## Protanomaly

34.9606, 0.2175, 0.2351



## Deuteranomaly

35.7537, 0.2097, 0.2262



## Tritanomaly

36.9433, 0.2110, 0.2796

# Monochromacy



## Original Color

36.9577, 0.1992, 0.2370



## Achromatopsia

22.3228, 0.3127, 0.3290



## Achromatomaly

25.2990, 0.2392, 0.2868

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.9512, 0.1992, 0.2370 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(1, 175, 240)` looks like.

```
.text, #text, p{  
    color:rgb(1, 175, 240)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(1, 175, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 175, 240) }
```

## Border

The CSS property to change the border of an element to Yxy 36.9512, 0.1992, 0.2370 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(1, 175, 240) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(1, 175, 240) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(1, 175, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 175, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 175, 240);  
box-shadow:4px 4px 4px 4px rgb(1, 175,  
240) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.9512, 0.1992, 0.2370 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 175, 240) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(1, 175,  
240) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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